PRODUCTION OF 1,1,1,3,3-PENTAFLUOROPROPANE

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Abstract of **JP10101593**

PROBLEM TO BE SOLVED: To make it possible to obtain the subject compound useful as a foaming agent, etc., in a high yield and a high selectivity with a long catalyst life, by fluorinating 1,1,1,3,3-pentachloropropane in the absence of catalyst and the fluorinating the resultant compound in the presence of a catalyst. SOLUTION: (A) 1,1,1,3,3-Pentachloropropane is fluorinated with (B) hydrogen fluoride in the absence of fluorinating catalyst at, e.g. 50-300 deg.C temperature and (1:1) to (1:30) molar ratio of the components A:B to provide (C) a partially fluorinated reactional product, which is then fluorinated with the component B in the presence of (D) a fluorinating catalyst (e.g. a catalyst containing a halide of Sb, Nb or Ta) at 0-200 deg.C temperature to afford 1,1,1,3,3-pentafluoropropane.

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